

# SANJAY SATISH SHEKAR

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## Education

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### The University of Texas at Arlington

August 2022 – Present

*Masters of Science in Computer Science*

CGPA: 4.00 / 4.00

Courses: Artificial Intelligence, Cloud Computing and Big Data, Distributed Systems, Design and Analysis of Algorithms, Data Analysis and Modeling Techniques.

### PES University

August 2014 – May 2018

*Bachelor of Science in Computer Science*

CGPA: 8.06 / 10

*Specialized in Algorithms and Computing Models*

Courses: Parallel Computing, Web Technologies, Machine Learning, Digital Image Processing.

## Work Experience

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### Computer Science and Engineering at UTA

August 2023 – Present

*Graduate Teaching Assistant for Cloud Computing and Big Data*

- Set up the environments to execute Hadoop, Spark, Pig, and Hive projects for the course.
- Assessed and supervised examinations, led comprehensive exam review sessions, and provided guidance to students in completing their project assignments.

### Infosys Limited

July 2018 – July 2022

*Specialist Programmer*

- Created a real-time inventory management system in **Spring Boot** for different product categories and provided an user-friendly UI using **React** targeted for business and sales teams across the globe.
- Provided **REST APIs** to automate the process of downloading service-related loggers with Time-based OTP with **SpringBoot** for the backend and a **React** UI for the frontend.
- Built a microservice using **Spring Boot** tasked with analysing and documenting errors generated by other services with the error count, description and other details such as the datacenter and creating an issue tracker for the same.
- Developed a tool to automate the process of validating different flows and placing orders for a service.
- Developed a microservice-based app to track users and restrict their entry into unauthorized areas using RFID tags.

## Projects

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### Big Data Analytics | Hadoop, Spark TensorFlow

March 2023

- Implemented Page Rank Algorithm using TensorFlow for a distributed environment setup.
- Evaluated the relationship between word usage and heart disease mortality rate using Spark.

### RealtimeDataAnalytics | React, Spring, MongoDB

September 2020

- Implemented REST APIs to handle real-time order-related data in SpringBoot.
- Implemented front-end in React using redux and other libraries to provide a graphical representation.

### Static Reflection in C++ | C++, Clang, LLVM

May 2018

- Implemented library `std::reflexpr` to enable the exposure of static reflection for the developer.
- Implemented underlying compiler intrinsic APIs `__reflection_intrinsic` for the reflection libraries.
- Implemented 'for constexpr' for unrolling of a range based for loop.

## Technical Skills

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**Languages:** Java, Python, C, JavaScript, Docker, C++, Go lang, PHP, Scala, Kubernetes

**AWS:** Lex, Lambda, S3, EC2, DynamoDB

**Big Data Tools:** Hadoop, Spark, Pig, Spark-SQL

**Development Frameworks:** Spring boot, Flask, Django, Node.js

**Testing tools and Frameworks:** JUnit, Mockito, Jenkins

**Databases:** MongoDB, MySQL, PostgreSQL, Cassandra

**Monitoring Frameworks:** Splunk

**Developer Tools:** VS Code, Eclipse, IntelliJ

**Misc Tools:** git, MS Office Suite, Websphere, Maven, Shell Scripting, Apache Tomcat

## Awards/Achievements

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- Won the **Rise Glory FY21-H1: 'Be the Navigator to Client - Best Project/Solution'** award from Infosys for the project RealtimeOrderAnalytics dashboard.
- Won the **'Best Student Project Award'** for the year 2018 from **AMD India** for the project **Static Reflection in C++**.